

ROCK-PAPER-SCISSORS

SCIENCE, the easy way!

How about trying out these two experiments to learn about vibration and friction?

Musical Cap

- 1 Make an 8-mm hole in the bottle lid with a scissors. Press fit an 8-cm long old sketch pen piece in the hole. Make two holes in the pen.
- 2 Make another small hole in the rim of the lid. Press fit a 5-cm long ball pen refill in this hole.
- 3 Stretch a torn balloon on the lid. Place rubber bands to keep it stretched.
- 4 Push the sketch pen so that it just touches the balloon. On blowing through the refill you will hear a sound. Open and close the holes in the pen.

On blowing, the stretched balloon vibrates producing melodious notes.

CONCEPT: TOY INVENTOR ARVIND GUPTA
ILLUSTRATIONS: RESHMA BARVE
(www.arvindguptatoys.com)

Climbing Man

Marker
Paper Strip (28-cm x 6-cm)
Scissors

- 1 Fold strip in half and then in a quarter.
- 2 Open strip and fold two small triangles on top.
- 3 Open triangles and then squish them inwards.
- 4 Fold the arrow shape so as to see two separate strips below.
- 5 Cut the top of the triangle.
- 6 Draw a smiley face on the triangle.
- 7 Tuck the smiley between the two strips.
- 8 On moving the strips up-down the smiley will climb up and get ejected!!

The triangle climbs up because of the friction between the papers.

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